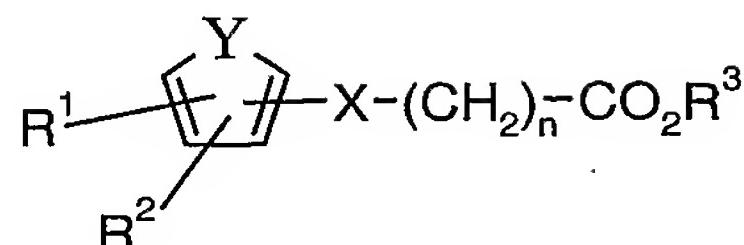


## WE CLAIM:

## 1. A compound of formula I:



I;

wherein:

$R^1$  and  $R^2$  are each independently H, OH, cyano, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>6</sub> alkoxy, CF<sub>3</sub>, halo or NR<sup>4</sup>R<sup>4</sup>′;

$R^3$  is H, C<sub>1</sub>-C<sub>6</sub> alkyl;

X is a 5 membered aromatic heterocycle that is optionally substituted with C<sub>1</sub>-C<sub>4</sub> alkyl; wherein said heterocycle contains at least two or three heteroatoms selected from N, S and O wherein at least one heteroatom must be N;

Y is S, CR<sup>5</sup>=N or N=CR<sup>5</sup>;

n is 2, 3, 4, 5, 6 or 7;

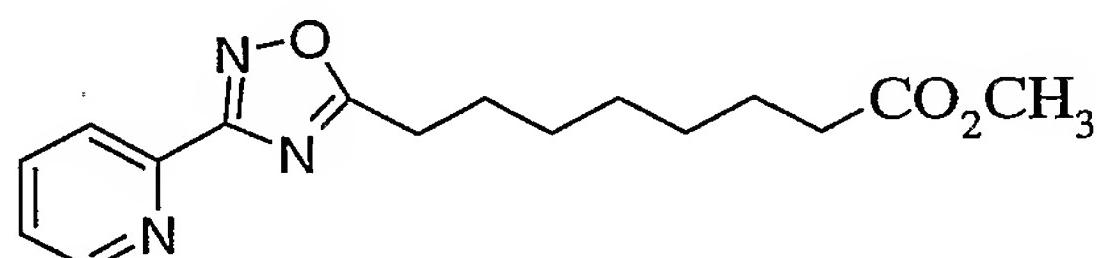
R<sup>4</sup> is H, COR<sup>6</sup>, SO<sub>2</sub>R<sup>7</sup>, or C<sub>1</sub>-C<sub>6</sub> alkyl;

R<sup>4</sup>′ is H or C<sub>1</sub>-C<sub>6</sub> alkyl;

R<sup>5</sup> is H or forms a bond with X;

R<sup>6</sup> is H or C<sub>1</sub>-C<sub>6</sub> alkyl; and

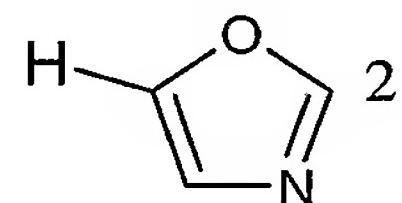
R<sup>7</sup> is H or C<sub>1</sub>-C<sub>6</sub> alkyl; or a pharmaceutical salt thereof; wherein said compound of formula I is not:



2. The compound of claim 1 wherein R<sup>1</sup> and R<sup>2</sup> are each independently H, OH, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>1</sub>-C<sub>6</sub> alkoxy, CF<sub>3</sub>, halo or NR<sup>4</sup>R<sup>4'</sup> and wherein X is not substituted with C<sub>1</sub>-C<sub>4</sub> alkyl.

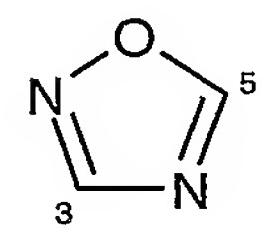
3. The compound of claim 1 or 2 wherein R<sup>3</sup> is H.

4. The compound of any one of claims 1-3 wherein X is



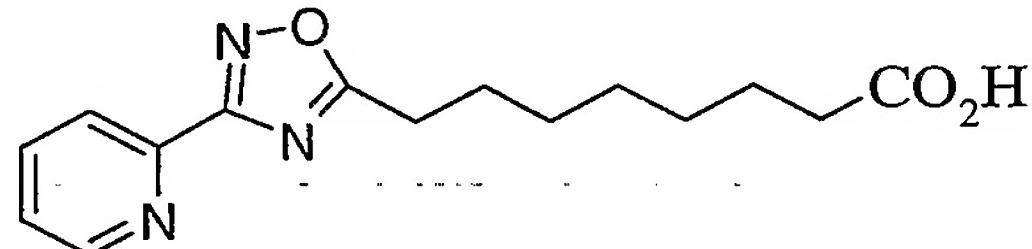
; R<sup>3</sup> is H and the (CH<sub>2</sub>)<sub>n</sub>CO<sub>2</sub>R<sup>3</sup> moiety is attached at position number 2; or a pharmaceutical salt thereof.

5. The compound of any one of claims 1-3 wherein X is



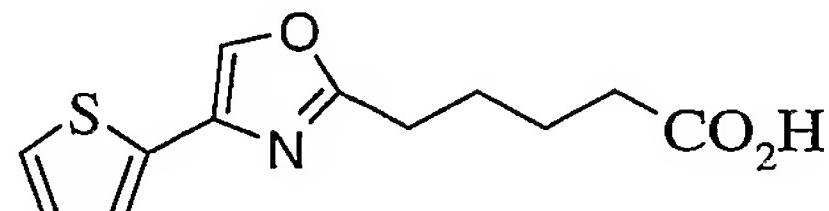
; R<sup>3</sup> is H and the (CH<sub>2</sub>)<sub>n</sub>CO<sub>2</sub>R<sup>3</sup> moiety is attached at position number 5; or a pharmaceutical salt thereof.

6. A compound which is



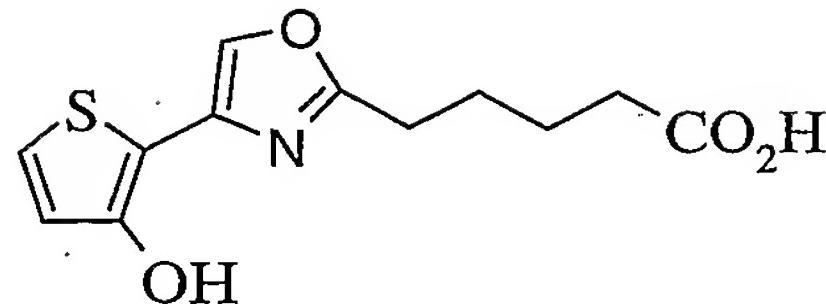
or a pharmaceutical salt thereof.

7. A compound which is



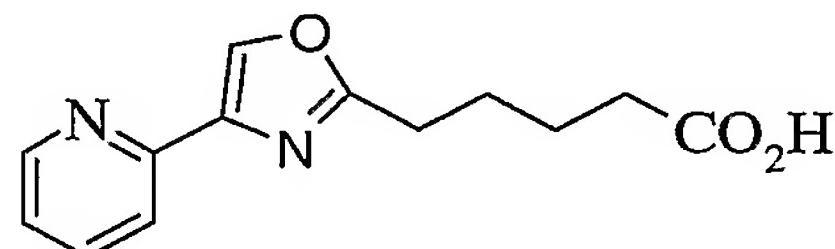
or a pharmaceutical salt thereof.

8. A compound which is



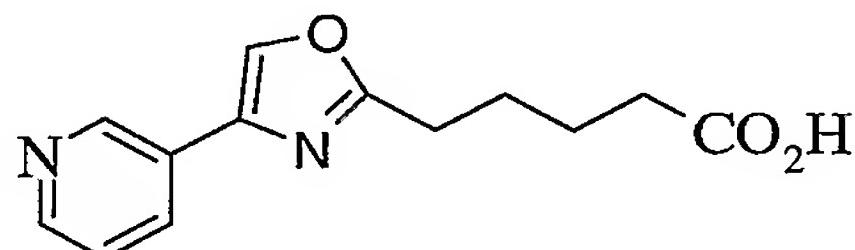
or a pharmaceutical salt thereof.

9. A compound which is



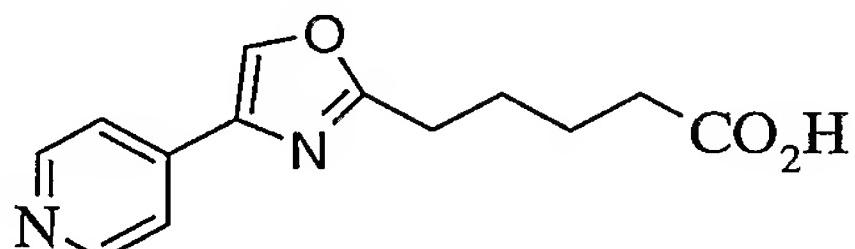
or a pharmaceutical salt thereof.

10. A compound which is



or a pharmaceutical salt thereof.

11. A compound which is .



or a pharmaceutical salt thereof.

12. A pharmaceutical composition comprising:

- a) a compound of any one of claims 3-11 or a pharmaceutical salt thereof; and
- b) a GLP-1 compound.

13. The composition of claim 14 wherein the GLP-1 compound is Val<sup>8</sup>-Glu<sup>22</sup>-GLP-1(7-37)OH.

14. A pharmaceutical composition comprising:
- a compound of any one of claims 3-11 or a pharmaceutical salt thereof; and
  - an MC4 agonist peptide.

15. The composition of claim 16 wherein the MC4 agonist peptide is selected from the group consisting of:

Ac-Arg-cyclo[Cys-Glu-His-D-Phe-Arg-Trp-Cys]-NH<sub>2</sub>;

Ac-cyclo[hCys-His-D-Phe-Arg-Trp-Cys]-NH<sub>2</sub>;

Ac-cyclo[hCys-His-D-Phe-Arg-Trp-penicillamine]-NH<sub>2</sub>; and

N-cyclohexanecarbonyl-cyclo[hCys-His-D-Phe-Arg-Trp-penicillamine]-NH<sub>2</sub>.